

TGAACGCGGAGGGACATGTTTTCGTCTGGGGCTATGGAATTCTTGGGAAAGGACCAAAGCTCTTGGAAC  
GGCAATTCCAGAAATGATTCCACCCACGCTCTTTGGTTTGACGGAGTTTAACCCCTGAAGTCCAGGTTTCC  
CAGATCCGATGTGGGCTTAGCCACTTTGCCGCACTCACCAACAAGGGTGAGCTGTTTCGTGTGGGGCAAGA  
ACATCCGAGGGTGCTTGGGGATTGGCCGCCTGGAAGACCAGTACTTCCCATGGAGGGTGACGATGCCCCG  
TGAGCCTGTGGATGTGGCGTGTGGAGTGGATCACATGGTGACTCTAGCCAAGTCATTCATCTGAAAGGCC  
CTCT (SEQ ID NO:1)

FIG. 1

03622660

underlined = deleted in targeting construct

[ ] = sequence flanking Neo insert in targeting construct

TGAACG [CGGAGGGACATGTTTTCGTCTGGGGCTATGGA] ATTCTTGGGAAAGGACCAAAGC  
TCTTGGAAACGGCAATTCCAGAAATGATTCCACCCACGCTCTTTGGTTTGACGGAGTTTA  
ACCCTGAAGTCCAGGTTTCCCAGATCCGATGTGGGCTTAGCCACTTTGCCGCACTCACCA  
ACAAGGGTGAGCTGTTCGTGTGGGGCAAGAACATCCGAGGGTGCTTGGGGATTGGCCGC [C  
TGAAGACCAGTACTTCCCATGGAGG] GTGACGATGCCCGGTGAGCCTGTGGATGTGGCGT  
GTGGAGTGGATCACATGGTGACTCTAGCCAAGTCATTCATCTGAAAGGCCCTCT (SEQ ID NO:1)

Gene Sequence  
Structure \*

39 bp

Sequence Deleted

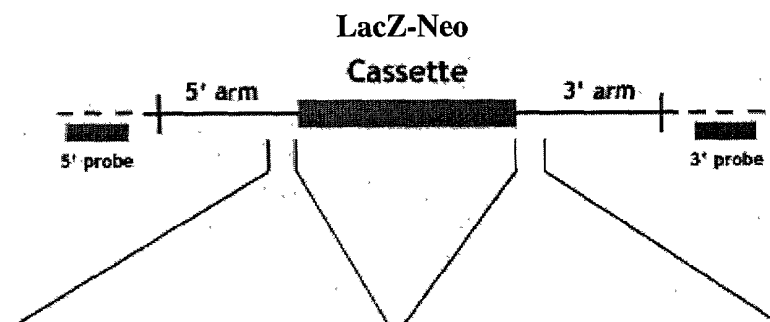
239 bp

Size of EST: 354 bp

Targeting Vector\* (genomic sequence)

Construct Number: 2464

Arm Length:  
5': 1.6 kb  
3': 2.5 kb



5'>ATTACAGGCGTGCTCCATTCT  
GTCTGGTTTCTGCAGTCTGTGGAC  
AGCACCAAGGGCTTTGTGCATGCT  
GGGCAGGCATGCTATCCCTGAACC  
CAGCCCCGTAGATTTTATGGCAA  
GGGAGGGCTCTGCTTGGCTTGACT  
CACAACCACTGTTTTGTTGTAACA  
CAGCGGAGGGACATGTTTTCGTCT  
GGGGCTATGGA<3' (SEQ ID  
NO:2)

5'>CTGAAGACCAGTACTTCCA  
TGGAGGGTAAGACCATGCAGGGGT  
GGGACGTGGAGGCTGTCCCAAAGG  
ATGCAGAACCAATGTGGGACAGG  
GTCCAGGACCTCCTGAGCGCCACA  
GTCAAGGATGGACTCCAGGGAGGC  
TTGAGTGGAGGGGATGGGCAGGAG  
CTGATGTAGCGCTGGCGGCATGTG  
TGCAGCCTTCA<3' (SEQ ID  
NO:3)

— Targeting Vector  
- - - Endogenous Locus

\* Not drawn to scale

FIG. 2